

May 05, 2017



U.S. Department
of Transportation

East Building, PHH-30
1200 New Jersey Avenue S.E.
Washington, D.C. 20590

**Pipeline and Hazardous
Materials Safety Administration**

DOT-SP20387

EXPIRATION DATE: 2018-11-30

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Technip Stone & Webster Process Technology, Inc.
East Weymouth, MA
2. PURPOSE AND LIMITATION:
 - a. This special permit authorizes the transportation in commerce of compressed gases listed in paragraph 6 in bundled non-DOT specification cylinders which do not have pressure relief devices. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
 - b. The safety analyses performed in the development of this special permit only considered the hazards and risks associated with the transportation in commerce.
 - c. No party status will be granted to this special permit.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.302a(a)(1) and 173.304a(a)(1) in that non-DOT specification cylinders are not authorized; §§ 173.301(f) and 173.301(g) in that pressure relief devices are required; and 178.71(q) in that the UN marking is required.
5. BASIS: This special permit is based on the application of Technip Stone & Webster Process Technology, Inc. dated December 16, 2016 submitted in accordance with § 107.105 and the public proceeding thereon.

Tracking Number: 2016126689

6. HAZARDOUS MATERIALS (49 CFR 172.101):

Hazardous Materials Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Ethylene	2.1	UN1962	N/A

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packagings are thirty-six (36) 50-liter seamless steel cylinders made to EN 1964-2/ISO 9809-2 standard. The cylinders are designed for 300 bar (4351 psi) test pressure and meet all applicable requirements in the HMR for ISO 9809-2 cylinders except that they are not equipped with the pressure relief devices prescribed in §173.301(f) and (g), and are not approved or marked with the UN specification(s) in §178.71.

(1) The cylinders consist of three (3) 12-cylinder manifolded bundles. Each bundle is enclosed in a custom designed and built metal frame that meets the requirements of EN 13769:2003.

(2) The bundle frames are covered with plywood or equivalent material to provide additional protection to the cylinders, valves and manifolding.

b. OPERATIONAL CONTROLS -

- (1) Each cylinder may contain a maximum of 13 kg of ethylene.
- (2) Each cylinder must be equipped with an individual shutoff valve that must be tightly closed while in transit.
- (3) Manifold branch lines must be sufficiently flexible to prevent damage to the valves.
- (4) The total bundle assembly must be capable of rough handling including being dropped or overturned.

May 05, 2017

- (5) Emergency response information provided with the shipment and available via an emergency response telephone number must indicate that the cylinders are not fitted with pressure relief devices and provide appropriate guidance in case of fire.
- (6) The cylinders are authorized only for one time, one-way transportation to the applicant's research facility in Weymouth, Massachusetts.

c. MARKING -

The bundles must be marked clearly and legibly with certification, operational and manufacturing marks. These marks must be permanently affixed (e.g., stamped, engraved or etched) on a plate permanently attached to the frame of the bundle of cylinders. Further, the outer frame of the bundles must be durably marked "DOT-SP 20387" in characters at least 2 inches high on a contrasting background.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this special permit who receives a package covered by this special permit may reoffer it for transportation provided no modification or change is made to the package and it is reoffered for transportation in conformance with this special permit and the HMR.

b. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, cargo vessel.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each cargo vessel, aircraft, or motor vehicle used to transport packages covered by this special permit. The shipper must furnish a copy of this special permit to the air carrier before or at the time the shipment is tendered.

May 05, 2017

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)– "The Hazardous Materials Safety and Security Reauthorization Act of 2005" (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term "exemption" to "special permit" and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 - Immediate notice of certain hazardous materials incidents, and 171.16 - Detailed hazardous materials incident reports. In addition, the grantee(s) of

May 05, 2017

this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:

A handwritten signature in blue ink, appearing to read "W. Schoonover", is written over a light blue circular stamp.

for William Schoonover
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, U.S. Department of Transportation, East Building PHH-30, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm. Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: kah